


Final Products Datasheet (LMF-09-04)	  Alexandria Specialty Petroleum Products Company (ASPPC)	Version Number	1
		Release Date	01/12/2022
		Revision Number	0
		Revision Date	01/12/2022
		The chemical Laboratories and Research General Department	

Cationic Quick Setting Asphalt Emulsion (ASPPC 214)

DESCRIPTION

ASPPC 214 is a Polymerized Cationic Quick Setting Asphalt Emulsion (CQS-1HP), cold applied fluid asphalt emulsion. Complied with the standard specifications ASTM D2397.

FEATURES

- Excellent adhesion on all kinds of gravel.
- Can be applied easily and rapidly.
- Energy saving as it is used without heating.
- Environmentally friendly.
- Have sufficient fluidity to facilitate mixing and coating the aggregate.
- Have good attraction or wetting power for the aggregate surface.
- Low enough viscosity to permit handling and placement.
- No flowing off the aggregate.
- Provides resistance to wash off from rain within one hour after placement.

RECOMMENDED USES

- ASPPC 214 is ideal for tack coat, seal coat, slurry seal and Microsurfacing application.
- ASPPC 214 spread manually or with machinery.

PRECAUTION FOR SUCCESSFUL PROJECTS OF

1. **MICROSURFACING AND SLURRY SEAL**

- As with any project, correct design, normal good construction procedures and proper emulsion handling will give the best results.
- **ASPPC 214** was formulated for local aggregates, climate, job conditions and performance requirements to make sure your project will be successful.
- Using of high technology polymerized asphalt emulsion manufacturing improves the quality of the finished application.
- Permits normal traffic with/without compaction within one hours under average curing conditions of temperature and humidity.
- Permits Heavy traffic with/without compaction within 3-5 hours under average curing conditions of temperature and humidity.

2. **TACK COAT**

- Clean surface to be sprayed and remove any loose material.
- Spray **ASPPC 214** at a specified rate using an asphalt emulsion distributor.
- Spraying must be done uniformly and pressurized.
- **ASPPC 214** gives a dark brown color immediately after being sprayed.
- After breaking color is changed into black in about 30 minutes.
- **ASPPC 214** darkness increases with the final setting time.
- Wearing course can be laid on **ASPPC 214** after the full setting process is occurring (about 2 hrs).
- The best results of the adhering between the asphaltic layers (core test) using **ASPPC 214** is present after at least 48 hrs. from laying the wearing course.


COVERAGE

1. **MICROSURFACING AND SLURRY SEAL:**

- Percent weight of asphalt emulsion is normally 12-15%wt of the aggregate, based on weight of graded aggregate in the designed cold mix.

2. **TACK COAT**

- About 0.30 - 0.40 kg/m², depending on the nature of the substrate.

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SPECIFICATIONS

Physical Properties	Test Method	Specifications
Viscosity Saybolt Furol at 25°C, sec.	ASTMD 88	20-100
Storage stability, 24 hr, % ^A	ASTMD 6930	----
Sieve test, %wt ^A	ASTMD 6933	0.1 max
Cement mixing test, %	ASTM D6935	N/A
Particle charge test	ASTMD 244	Positive
pH	E70	2.0 – 4.0
Distillation test:		
Oil distillate, volume of emulsion, %	ASTMD 6997	----
Residue by distillation, %		57 min
Tests on residue from distillation:		
Penetration, dmm	ASTMD 5	40 - 90
Ductility, 25°C, cm	ASTM D113	40 min
Solubility in trichloroethylene, % mass	ASTMD2042	97.5 min

^A This test requirement on representative sample is waived if successful application of the material has been achieved in the field.

HEALTH & SAFETY

- ASPPC 214 is non-toxic.
- Workers should wear protective masks, gloves and goggles during application.
- No special precautions are needed since it is water-based non-flammable material.
- ASPPC 214 Must not be swallowing.
- If swallowed, CALL PHYSICIAN IMMEDIATELY.
- In case of eye contact, open eyelids wide and flush immediately with plenty of water for at least 15 minutes. Get medical advice.

STORAGE

- Store ASPPC 214 in a dry and shaded area in original packing.
- Store ASPPC 214 in clean tanks or drums free from any chemical products or impurities, avoiding air contacts, for about four months.
- Gently stir ASPPC 214 twice every week for at least two hours using a circulating pump.

PRECAUTIONS

- When ASPPC 214 be in contact with air, an asphaltic skin will be formed on the surface, and this skin must be removed before reusing the product.
- ASPPC 214 after complete drying not affected by water (re-emulsification not occur).
- Working temperature of ASPPC 214 is the ambient temperature; in all cases the working temperature not exceeding 50°C.
- Don't use ASPPC 214 if the temperature during application is less than 5°C.

PACKING

- ASPPC 214 is supplied in bulk and/or 200-liter steel drums.

DISCLAIMER

This Product Data Sheet summarizes our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this PDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. ASPPC co. does not accept any liability either directly or indirectly for any losses suffered in connection with the use or storage or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.